

# WILDLIFE HABITAT APPRAISAL GUIDE-MISSOURI

Landowner \_\_\_\_\_ Appraiser \_\_\_\_\_

Location T \_\_\_\_\_ R \_\_\_\_\_ S \_\_\_\_\_ County \_\_\_\_\_

Total Acres Appraised \_\_\_\_\_

Completed by MDC \_\_\_\_\_ ConAg \_\_\_\_\_ SCS \_\_\_\_\_ Other \_\_\_\_\_

## Habitat Characteristics

Field No. \_\_\_\_\_

Acres \_\_\_\_\_

### Percent Bottomland Hardwoods and Nonforest Wetlands in 2 Mile Wide Circle (2,000 Ac.)

1. >75%
2. 50-75%
3. 25-50%
4. 10-25%
5. <10%

### Woodland Size Class and Canopy Coverage<sup>1</sup>

1. Sawtimber - Open Canopy (<50% coverage)
2. Sawtimber - Closed Canopy (>50% coverage)
3. Regeneration or pole with 25-50% sawtimber
4. Pole - No scattered sawtimber
5. Regeneration - No scattered sawtimber

### Woodland Tree Species

1. >50% as elm, walnut, cottonwood, sycamore, willow, ash, maple (soft mast)
2. 25-50% as elm, walnut, cottonwood, sycamore, willow, ash, maple
3. <25% as elm, cottonwood, sycamore, maple; or <25% pin oak (or other small acorns)
4. 25-50% pin oak (or other small acorns)
5. >50% pin oak (or other small acorns)

### Permanent Water Within Woodland

1. >25% % tract (stand) covered by oxbows,
2. 10-25% pools, sloughs, depressions with
3. 5-10% water until August 1st
4. 1-5%
5. Zero

### Emergent and Submergent Vegetation in Channel (from center of woodland % channel 1/4 mi. up & down stream or oxbow with emergent aquatic vegetation)

1. >10% Emergent includes erect,
2. 5-10% rooted herbaceous plants
3. 1-5% present for most of the
4. None; or channel > 1/4 mi. from center woodland growing season.

### Average Water Fluctuation in Channel

1. Bank full <3 times per year
2. Bank full 3-5 times per year
3. Bank full 5-7 times per year
4. Bank full >7 times per year; or channel > 1/4 mile from center woodland

### Percent Canopy from Old Growth (trees with diameter >16")

1. >25%
2. 10-25%
3. 5-10%
4. 1-5%
5. Zero

### Forest Openings (<2 ac. in size)

1. 15-30% scattered
2. 15-30% one or few Score maximum points if <40 acre woodland;
3. 5-15% average width <660 feet; or
4. <5% or >30% regeneration size class

## BEAVER WOOD DUCK

### Bottomland Hardwoods Habitat Type

#### Beaver

#### Wood Duck

10	10	10	10	10	10	10	10	10	10
8	8	8	8	8	8	8	8	8	8
6	6	6	6	6	6	6	6	6	6
4	4	4	4	4	4	4	4	4	4
1	1	1	1	1	1	1	1	1	1
4	4	4	4	4	10	10	10	10	10
1	1	1	1	1	8	8	8	8	8
6	6	6	6	6	6	6	6	6	6
8	8	8	8	8	4	4	4	4	4
10	10	10	10	10	1	1	1	1	1
10	10	10	10	10	8	8	8	8	8
8	8	8	8	8	10	10	10	10	10
1	1	1	1	1	1	1	1	1	1
4	4	4	4	4	4	4	4	4	4
1	1	1	1	1	6	6	6	6	6
					10	10	10	10	10
					7	7	7	7	7
					4	4	4	4	4
					2	2	2	2	2
					1	1	1	1	1
10	10	10	10	10	10	10	10	10	10
7	7	7	7	7	7	7	7	7	7
4	4	4	4	4	4	4	4	4	4
1	1	1	1	1	1	1	1	1	1
10	10	10	10	10					
7	7	7	7	7					
4	4	4	4	4					
1	1	1	1	1					
1	1	1	1	1	10	10	10	10	10
4	4	4	4	4	8	8	8	8	8
6	6	6	6	6	6	6	6	6	6
8	8	8	8	8	4	4	4	4	4
10	10	10	10	10	1	1	1	1	1
5	5	5	5	5	10	10	10	10	10
4	4	4	4	4	7	7	7	7	7
3	3	3	3	3	4	4	4	4	4
1	1	1	1	1	1	1	1	1	1

Beaver and Wood Duck

Subtotals

Date \_\_\_\_\_

Habitat Planning Key

○ - Existing

⊕ - Planned

● - Applied

		BEAVER WOOD DUCK							
		Beaver				Wood Duck			
Subtotals									
Field No.									
Number of Cavity and Snag Trees Per Acre <sup>2</sup>						10	10	10	10
1. >9						7	7	7	7
2. 3-9						4	4	4	4
3. 1-3						1	1	1	1
4. None									
Stems per Square Yard of Shrub and Tree Reproduction >3 feet Tall									
1. >3 (very thick)		10	10	10	10	1	1	1	1
2. 1-3		7	7	7	7	3	3	3	3
3. 0.5-1		4	4	4	4	5	5	5	5
4. <0.5 (very sparse)		1	1	1	1	2	2	2	2
Percent Bottomland Hardwoods Within 660' of Permanent Water <sup>1</sup>									
1. >75% Permanent water = water present by August 1st		10	10	10	10	10	10	10	10
2. 50-75% (Multiply Index by .75)		6	6	6	6	6	6	6	6
3. 25-50% (Multiply Index by .50)		4	4	4	4	4	4	4	4
4. <25% (Multiply Index by .25)		1	1	1	1	1	1	1	1
Distance to Oxbow, Slough or Nonforest Wetland with Permanent Water (Does not include stream or river)									
1. <1/8 mi.		10	10	10	10	10	10	10	10
2. 1/8 - 1/4 mi. Permanent water = water present by August 1st		1	1	1	5	5	5	5	5
3. >1/4 mi.		1	1	1	1	1	1	1	1
Existing Total									
Planned Total									
Applied Total									
Habitat Type Index =									
Total Actual Score									
Max. Possible Score									
Farm Habitat Index =									
Σ(Habitat Type Indexes x Acres)									
Total Acres Appraised									
Existing Farm = _____									
Index									
Planned Farm = _____									
Index									

  

Check Footnotes							
95	95	95	95	105	105	105	105

Habitat	Score	0.75 - 1.0	0.50 - 0.75	0.25 - 0.50	0 - 0.25
Quality	Rating	Excellent	Good	Fair	Poor
Acres/Beaver		<40	40-60	60-80	>80
Acres/Wood Duck		<20	20-30	30-40	>40

NOTES:

1. If Percent Woodland Within 660' of Permanent Water scores less than 10, multiply index by appropriate percent.
2. If both Woodland Size Class and Number of Cavity and Snag Trees for the wood duck both score 1, disregard other characteristics and enter .1 as Index.

